

November 10, 2003

Dear interested party,

On behalf of the many foresters, biologists, scientists, economists and others at the state Department of Natural Resources who have worked on this project, I am pleased to offer the Draft Environmental Impact Statement (DEIS) for sustainable stewardship of state forest lands in Western Washington.

This (DEIS) is the product of more than two years of work and is the most comprehensive examination of state forest stewardship in Western Washington ever completed. As part of that examination DNR took several important steps.

First, we began with a comprehensive inventory of Washington's state forests. Data was collected not only on forest age, but also on habitat conditions and dozens of other factors critical to understanding forest growth and ecosystem health. Critical to this were the efforts of the independent technical advisory committee, who helped guide that spatial modeling process and provided important and independent scientific and technical advice.

We also made use of the most recent technology to model forest stewardship. Using that new inventory data, we simulated forest growth and management 200 years into the future, examining the impact of various strategies across landscapes.

Finally, early results from the model were verified by DNR foresters in the field to help ensure the accuracy of the projections.

During the next few months, the Board of Natural Resources will begin discussions on the six alternatives in an effort to find the responsible balance of economic benefit, environmental protection and social benefits, and to select a preferred alternative. Public participation is an important part of that examination and we invite anyone who is interested to join us at one of the six public meetings scheduled as part of this effort. A schedule of these meetings is on the "fact sheet" page of this document. Comments also may be made in writing through December 19, 2003.

I want to thank DNR foresters, scientists, economists and others who have put so many hours into this effort. Thanks also to the independent scientists from universities, industry and other agencies that helped ensure the quality of the science you see here. Finally, I want to thank the members of the public who have provided input throughout this process so far.

By balancing revenue for schools and other beneficiaries, healthy ecosystems, and benefits for all the people of Washington, our state can continue to be a leader in sustainable forestry practices.

Doug Sutherland

Commissioner of Public Lands Chair, Board of Natural Resources

Fact Sheet

Title: Draft Environmental Impact Statement on Alternatives for Sustainable Forest Management of State Trust Lands in Western Washington.

Description: The proposal is the adoption of new policies and procedures resulting in a sustainable harvest level for forested trust lands managed by the Washington State Department of Natural Resources in western Washington.

Project Proponent: Washington State Department of Natural Resources 1111 Washington St. SE P.O. Box 47016 Olympia, WA 98504-7016

Tentative Implementation Date: July 2004

Lead Agency: Washington State Department of Natural Resources

Responsible Official: Mr. Jack Hulsey, Upland Region Operations Coordinator Washington State Department of Natural Resources 1111 Washington St. SE P.O. Box 47001 Olympia, WA 98504-7001

Contact: Mr. Andrew Hayes, EIS Project Manager

Land Management Division 1111 Washington St. SE P.O. Box 47016 Olympia, WA 98504-7016

Phone: (360) 902-1347

E-mail: sustainable.harvest@wadnr.gov

Authors and Principal Contributors:

DNR Sustainable Harvest Project Manager

Angus Brodie DNR

DNR EIS Project Manager

Andrew Hayes DNR

Contractor Project Manager

Kathleen Engel Tetra Tech FW, Inc.

Lead Technical Reviewer

Joe Iozzi Tetra Tech FW, Inc.

Forest Structure and Vegetation

Joni Urbanski Tetra Tech FW, Inc. Joe Iozzi Tetra Tech FW, Inc.

Riparian Areas/Fish

Alan Olson R2 Resource Consultants

Wildlife

Mike Hall Tetra Tech FW, Inc. Kathleen Engel Tetra Tech FW, Inc.

Air Quality

Joe Iozzi Tetra Tech FW, Inc.

Geomorphology, Soils, and Sediment/ Hydrology/Water Quality

Stephanie Phippen Tetra Tech FW, Inc.
Patricia Weston Tetra Tech FW, Inc.
Tom Stewart Tetra Tech FW, Inc.

Wetlands/TES Plants

Mary Clare

Schroeder Tetra Tech FW, Inc.
Joe Arnett Tetra Tech FW, Inc.

Cultural Resources

Jim Chatters Tetra Tech FW, Inc.

Public Utilities and Services/Recreation/

Scenic Resources

Matt Dadswell Tetra Tech FW, Inc.

Carbon Sequestration

John Ostendorff Tetra Tech FW, Inc.

Document Production

Sybil Gooljar Tetra Tech FW, Inc.

Cover Illustration

Tim Richards Tetra Tech FW, Inc.

Editorial Oversight

Jack Hulsey	DNR
John Baarspul	DNR
Stephen Saunders	DNR
Angus Brodie	DNR
Andrew Hayes	DNR
Jane Chavey	DNR
Blanche Sobottke	DNR

Joe Iozzi Tetra Tech FW, Inc.

Date Issued: November 10, 2003

Comment Period: Comments must be received by December 19, 2003. Comments may be submitted electronically on the DNR website at www.dnr.wa.gov, sent as e-mail attachments to the SEPA Center, sepacenter@wadnr.gov, or mailed to:

SEPA Center

Washington State Department of Natural Resources

P. O. Box 47015

Olympia, WA 98504-7015

Public Meetings/Hearings:

Lacey	December 2, 2003
Port Angeles	December 3, 2003
Mount Vernon	December 4, 2003
Vancouver	December 9, 2003
Aberdeen	December 10, 2003
Des Moines	December 11, 2003

Date of Next Action and Subsequent Environmental Reviews:

Selection of Preferred Alternative by Board of Natural Resources – February 2004 FEIS Tentative Release Date – May 2004

Location of Supporting Documents:

This Draft Environmental Impact Statement is available on the Internet at http://www.dnr.wa.gov. Select the "Sustainable Harvest for State Trust Forestlands" link. Copies of the DEIS are available to read at public libraries throughout the state of Washington. Requests for mailed printed copies and CDs containing the document should be directed to:

Washington State Department of Natural Resources SEPA Center P.O. Box 47015 Olympia, WA 98504-7015 Phone (360) 902-1634

The 1992 Forest Resource Plan, 1997 Habitat Conservation Plan, DNR Procedures, and Washington Forest Practices Rules, upon which the Sustainable Harvest Calculation Alternatives are based, are available for review at each of the five westside DNR Region offices in Washington, and at the SEPA Center, Department of Natural Resources, 1111 Washington St. SE, Olympia, Washington.

Cost/Availability:

Copies of the Draft Environmental Impact Statement are available for downloading at no charge from the Internet address listed above. A limited number of print copies and computer CDs will also be available at no charge. After these are distributed, additional copies will be available for the cost of printing or CD production, per RCW 42.17. Requests can be sent to the above address.

Distribution List

This draft environmental impact statement is published on the DNR Internet website at http://www.dnr.wa.gov. In addition, copies have been distributed to:

Washington State Board of Natural Resources

Doug Sutherland, Commissioner of Public Lands
Bob Nichols, designated representative to the Governor
Terry Bergeson, the State Superintendent of Public Instruction
R. James Cook, the Dean of the College of Agriculture, Washington State University
Bruce Bare, the Dean of the College of Forest Resources, University of Washington
Glen Huntingford, Jefferson County Commissioner

State Agencies

Departments of Ecology and Fish and Wildlife

Indian Tribes of Washington

Western Washington Tribal/Board Chairs for: Chehalis Confederated Tribes, Chinook Indian Tribe, Columbia River Intertribal Fisheries Commission, Confederated Tribes of the Colville Reservation, Cowlitz Indian Tribe, Duwamish Tribe, Hoh Indian Tribe, Jamestown S'Kallam Indian Tribe, Kalispel Tribe of Indians, Lower Elwha Klallam Tribe, Lummi Nation, Makah Tribe, Muckleshoot Tribe, Nisqually Tribe, Nooksack Tribe, Northwest Indian Fisheries Commission, Point No Point Treaty Council, Port Gamble S'Klallam Tribe, Puyallup Tribe, Quileute Tribe, Quinault Nation, Samish Indian Nation, Shoalwater Bay Tribe, Skagit System Cooperative, Skokomish Tribe, Snohomish Tribe, Snoqualmie Tribe, Squaxin Island Tribe, Steilacoom Indian Tribe, Stillaguamish Tribe, Sauk-Suiattle Tribe, Suquamish Tribe, Swinomish Tribe, Tulalip Tribes, Umatilla Confederated Tribes, Upper Columbia United Tribes, Upper Skagit Tribe, Yakama Nation

Public Libraries

Washington State Library, Depository Libraries, University and College Libraries, County and City Libraries

Counties

Western Washington County Commissioners/Executives for: Clallam, Clark, Cowlitz, Grays Harbor, Island, Jefferson, King, Kitsap, Lewis, Mason, Pacific, Pierce, San Juan, Skagit, Skamania, Snohomish, Thurston, Wahkiakum and Whatcom Counties

General Public

All other individuals and groups on the Board of Natural Resources and Sustainable Harvest Calculation mail lists will receive official SEPA notification of the document's availability. The full document is available on the DNR website: http://www.dnr.wa.gov

DRAFT

ENVIRONMENTAL IMPACT STATEMENT

on

ALTERNATIVES
FOR SUSTAINABLE
FOREST
MANAGEMENT OF
STATE TRUST
LANDS IN
WESTERN
WASHINGTON

And for Determining the Sustainable Harvest Level

November 2003

Responsible Official

Jack Hulsey Regions Operations Manager

> Contact Person Andrew Hayes EIS Project Manager

Olympia, Washington

Cover photo credit:

Mycena haematopus Copyright © California Academy of Sciences;
Dr. Robert Thomas and Margaret Orr, photographers



Contents

TABLE OF CONTENTS

EX	ECUT	IVE SU	JMMARY	ES-1
1.	BAC	KGROI	JND AND OBJECTIVES	1-1
	1.1	INTRO	ODUCTION	1-1
	1.2		GROUND	
		1.2.1		
			Manager	1-1
		1.2.2	Trust Duties	
		1.2.3	Legislative Directive	1-5
	1.3	REGU	JLATORY FRAMEWORK	1-6
		1.3.1	State Forest Practices Act	1-6
		1.3.2	Federal Endangered Species Act	1-6
			Other Laws	
	1.4	NEED	AND PURPOSE	1-7
		1.4.1	Need	
		1.4.2	Purpose	
	1.5		PING AND SIGNIFICANT ISSUES	
		1.5.1	Scoping	
		1.5.2	Significant Issues	
		1.5.3		
			Alternatives Considered	
	1.6	FINAL	_ DECISIONS TO BE MADE	1-10
2.	ALTE	ERNAT	IVES INCLUDING THE PROPOSAL	2-1
	2.1	INTRO	ODUCTION	2-1
	2.2	POLIC	CIES, PROCEDURES, AND IMPLEMENTATION STRATEGIES	2-1
	2.3	SUST	AINABLE FOREST MODELING	2-2
	2.4	DEVE	LOPMENT OF FOREST MANAGEMENT ALTERNATIVES	2-3
	2.5		RNATIVES CONSIDERED BUT ELIMINATED FROM DETAILED	
)Y	
			The 'Un-zoned Forest' Alternative	
			Other Alternatives, Comments, and Suggestions	
	2.6		RNATIVES CONSIDERED IN DETAIL	
			Features Common to all Reasonable Alternatives	
		2.0.2	Alternatives	
		2.6.3	Features that Vary Among Reasonable Alternatives	
		2.6.4	Projected Harvest Levels by Alternative	
		2.6.5	Summary of Proposed Alternatives	
		2.6.6	Summary of Environmental Consequences	
3.	ENV		IENTAL SETTING	
	3.1	SUMN	MARY OF DNR-MANAGED LANDS	
		3.1.1	Land Covered by the Proposal	
		3.1.2	Land Use	
		3.1.3	Ownerships in Western Washington	3-3



	3.2	CLIMA	ATE	3-4
	3.3	FORE	ST DISTURBANCE ON DNR-MANAGED LANDS	3-4
	3.4	GENE	RAL FOREST STAND CONDITIONS	3-5
	3.5	ECOF	REGIONS	3-6
		3.5.1	Coastal Range	3-6
		3.5.2	Puget Lowland	3-7
		3.5.3	Cascades	3-7
4.	AFF	ECTED	ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES	4-1
	4.1		TER INTRODUCTION	
	4.2		ST STRUCTURE AND VEGETATION	
		4.2.1	Summary of Effects	
		4.2.2	Introduction	
		4.2.3	Current Conditions	
		4.2.4	Forest Structure, Growth, and Yield	
		4.2.5	Old Forest	
		4.2.6	Forest Health	
		4.2.7		
		4.2.8	Threatened, Endangered, and Sensitive Plants	
	4.3	RIPAF	RIAN AREAS	
		4.3.1		
		4.3.2	Introduction	
		4.3.3	Affected Environment	
			Environmental Effects	
	4.4		LIFE	
		4.4.1	Summary of Effects	4-43
		4.4.2	Introduction	4-43
		4.4.3	Affected Environment	
		4.4.4	Environmental Effects	4-50
	4.5	AIR Q	UALITY	4-69
		4.5.1		
		4.5.2		
			Environmental Effects	
	4.6	GEON	MORPHOLOGY, SOILS, AND SEDIMENT	
		4.6.1	Summary of Effects	
		4.6.2	Introduction	
			Affected Environment	
	4.7	HYDR	ROLOGY	
		4.7.1	Summary of Effects	
		4.7.2	Introduction	
			Affected Environment	
		4.7.4	Environmental Effects	4-86
	4.8	WATE	R QUALITY	4-87
		4.8.1	Summary of Effects	
		4.8.2	Introduction	
		4.8.3	Affected Environment	4-88



Contents

		4.8.4 Environmental Effects	4-92
	4.9	WETLANDS	4-95
		4.9.1 Summary of Effects	4-95
		4.9.2 Introduction	4-95
		4.9.3 Affected Environment	4-95
		4.9.4 Environmental Effects	4-97
	4.10	FISH	4-103
		4.10.1 Summary of Effects	4-103
		4.10.2 Introduction	4-103
		4.10.3 Affected Environment	4-104
		4.10.4 Environmental Effects	4-110
	4.11	PUBLIC UTILITIES AND SERVICES	4-115
		4.11.1 Summary of Effects	4-115
		4.11.2 Introduction	4-115
		4.11.3 Affected Environment	4-115
		4.11.4 Environmental Effects	4-122
	4.12	CULTURAL RESOURCES	4-129
		4.12.1 Summary of Effects	4-129
		4.12.2 Introduction	4-129
		4.12.3 Affected Environment	4-129
		4.12.4 Environmental Effects	4-129
	4.13	RECREATION	4-135
		4.13.1 Summary of Effects	4-135
		4.13.2 Affected Environment	4-135
		4.13.3 Environmental Effects	4-137
	4.14	SCENIC RESOURCES	4-143
		4.14.1 Summary of Effects	4-143
		4.14.2 Introduction	4-143
		4.14.3 Affected Environment	4-143
		4.14.4 Environmental Effects	4-144
	4.15	CUMULATIVE EFFECTS	4-147
		4.15.1 Summary of Effects	4-147
		4.15.2 Introduction	4-147
		4.15.3 Vegetation and Wildlife Habitats	4-149
		4.15.4 Fish	4-159
		4.15.5 Water Resources	4-162
5.	REFE	ERENCES CITED	5-1
•	01.0	COARY	0.4



APPENDIX A	SCOPING SUMMARY AND RESPONSES TO PUBLIC SCOPING COMMENTS
APPENDIX B	MODELING PROCESS AND RESULTS
APPENDIX C	OVERVIEW OF POLICIES AND PROCEDURES
APPENDIX D	ADDITIONAL INFORMATION TO SUPPORT RESOURCE ANALYSES
APPENDIX E	ADDITIONAL INFORMATION TO SUPPORT CUMULATIVE EFFECTS ANALYSES
MAPS	
Мар 1	State Trust Lands and Adjacent Ownership in Western Washington
Map 2	DNR Administrative Regions and HCP Management Unit Boundaries
Мар 3	DNR-managed Land and Ownership Groups in Alternative 1



FIGURES

Figure 2.6-1.	Hierarchical Planning Model	2-18
Figure 2.6-2.	Modeled Proportion of State Trust Lands Forest in Each Stand Development Stage in 2004	2-27
Figure 2.6-3.	Modeled Proportion of State Trust Lands Forest Stand Development in Each Stage in 2013	2-28
Figure 2.6-4.	Modeled Proportion of State Trust Lands Forest Stand Development in Each Stage in 2067	2-28
Figure 4.2-1.	Average Annual Western Washington State Trust Land Timber Harvest Volume per Decade Over the Planning Period (2004-2067)	4-15
Figure 4.2-2.	Percent Distribution of Forests with Structural Complexity Characteristics of Old Forest at Year 2067	4-18
Figure 4.2-3.	Acres of Old Forest by Alternative at Years 2013 and 2067	4-18
Figure 4.3-1.	Distribution of Stand Development Stages within the Riparian Land Class on DNR Westside Forest Trust Lands	4-34
Figure 4.3-2.	Percent of the Riparian Land Class that is in Very Large Tree Stand Development Stages (Botanically Diverse, Niche Diversification, Fully Functional, and Old Natural Forest) in the Short Term and Long Term	4-39
Figure 4.3-3.	Estimated Percent of the Riparian Land Class Consisting of Various Stand Development Stages Including Very large Trees over the Long Term (2067) among the Alternatives	4-40
Figure 4.4-1.	Current (2004) and Estimated Future Amounts of Forested Habitat Types on DNR-managed Westside Trust Lands Under Each Alternative	4-53
Figure 4.13-1	Average Annual High Volume Removal Harvest Acres, by Alternative and Decade	
Figure 4.13-2	Total High Volume Removal Harvest Acres by Alternative and Planning Unit	1-140



TABLES

Table 2.6-1.	Summary of Policy, Procedure, and Task Changes under the Six Alternatives	. 2-19
Table 2.6-2.	Summary of State Trust Lands Sustainable Harvest Level in Million Board Feet per Year by Ownership Group for First Decade (2004-2013) Under Each Alternative	. 2-20
Table 2.6-3.	Summary of Projected Harvest Levels in Millions of Board Feet Per Year for First Decade (2004-2013) by State Trust, by Alternative	. 2-21
Table 3.1-1.	Acreage of DNR-managed Trust and other Forested Lands in Western Washington (by Trust Category)	3-2
Table 3.1-2.	Acreage by Ownership within Western Washington in 2003	3-3
Table 3.4-1.	Dominant Size Class Distribution for Westside Forested State Trust Lands in 2002	3-6
Table 4.2-1.	Average Annual Acres of Forest Management Activities, by Planning Unit, 1997 through 2002	4-8
Table 4.2-2.	Acres Pre-commercially Thinned on Westside State Trust Lands by Habitat Conservation Plan Planning Unit, 1996 through 2002	4-8
Table 4.2-3.	Standing Timber Volume for Western Washington State Trust Lands by Land Class	4-9
Table 4.2-4.	Stand Development Stages in Westside Forested State Trust Lands, by Planning Unit	. 4-11
Table 4.2-5.	Policy, Procedure, and Operational Changes that Affect Forest Structure, Growth, and Yield	
Table 4.2-6.	Average Distribution of Harvest within Land Classes	. 4-13
Table 4.2-7.	Percent Change in Standing Volume from Base Year 2004 by Alternative through the Analysis Period	. 4-14
Table 4.2-8.	Comparison of Forest Stand Development Stage Distribution (percent of forested acres) in 2067	. 4-14
Table 4.2-9.	Policy and Procedure Changes that Affect Old Forest on State Trust Lands	. 4-17
Table 4.2-10.	Forests at or Above the Relative Density Levels at Which Tree Mortality Occurs by Tree Species	. 4-19
Table 4.2-11.	Percent of Total Forested Acres with Elemented Relative Density Levels Over the Planning Period by Alternative	. 4-21
Table 4.2-12.	Harvest in Riparian Zones, and Percent of Forest with Botanical Diversity, by Alternative	. 4-26
Table 4.3-1.	Distribution of Stand Development Storages (Carey et al. 1996) Within Riparian Areas Among the Six Westside Planning Units	. 4-35
Table 4.3-2.	Estimated Acres of Forest Management in the Riparian Land Class per Decade Among the Westside Planning Units Under Each Alternative	. 4-39
Table 4.4-1.	Acres of Wildlife Habitat Types Among Westside Trust Lands by Habitat Conservation Planning Unit	. 4-44
Table 4.4-2.	Number of Watersheds ^{1/} Supporting Percentages of Deer and Elk Foraging Habitat Among Westside Planning Units	. 4-51
Table 4.4-3.	Acres of Structurally Complex Forests in Designated Nesting, Roosting, and Foraging and Dispersal Management Areas in 2067	. 4-60



Contents 2

Table 4.4-4.	Average Percent of Designated Nesting, Roosting, and Foraging Management Areas Harvested under Each Alternative per Decade at Various Harvest Volume Classes, Compared to the Average Harvest Rate in All Areas	4-62
Table 4.4-5.	Criteria for Evaluation of the Effects to Threatened, Endangered, and Sensitive Species Other Than Northern Spotted Owl and Marbled Murrelet	4-64
Table 4.4-6.	Change Over Time Relative to the Current (2004) Number of Watersheds in which 30 to 60 Percent of State Trust Lands Would Provide Deer and Elk Foraging Habitat, under Each Alternative	4-66
Table 4.6-1.	Areas of Deep-Seated Landslides and Potentially Unstable Slopes on DNR Lands in Western Washington, by Planning Unit	4-77
Table 4.6-2.	Site Class, Compaction Potential, Fertilizer Response, and Burn Damage Potential by Land Classification (Percent Area)	4-78
Table 4.6-3.	Site Class, Compaction Potential, Fertilizer Response, and Burn Damage Potential by Planning Unit (Percent Area)	4-79
Table 4.6-4.	Area of Fertilization, Site Preparation, or Vegetation Management in Forested DNR Lands in Western Washington between 1993 and 2002 (acres)	4-80
Table 4.7-1.	Lengths of Streams on Forested DNR Westside Trust Lands by Stream Type and Planning Unit	
Table 4.7-2.	Areas of Hydrologic Maturity and Immaturity in Significant Rain-on-Snow/Sub-basin Zones by Westside Planning Unit (Current 2004)	4-85
Table 4.8-1.	Extent of Fertilization (Aerial and Ground) and Herbicide Application (Aerial and Ground) by Year in Forested DNR Westside Trust Lands	4-90
Table 4.8-2.	Washington State Water Quality Standards for the Major Non-Chemical Parameters of Concern	4-91
Table 4.8-3.	Fertilization Intensity by Alternative	4-93
Table 4.9-1.	Average Percent of Acres in each Land Class Harvested per Decade	
Table 4.11-1.	Forested State Trust Lands Managed by DNR, by Trust Beneficiery	
Table 4.11-2.	Annual Statewide Timber Harvest by Trust Beneficiary, Fiscal Year 1998 to Fiscal Year 2002 (in million board feet)	4-118
Table 4.11-3.	Annual Statewide Income Generated by Trust Beneficiary, Fiscal Year 1998 to Fiscal Year 2002 (\$ million)	4-119
Table 4.11-4.	Timber Sale Revenue as a Proportion of Annual Income by Trust Beneficiary, Fiscal Year 1997 to Fiscal Year 2002 (Percent)	4-120
Table 4.11-5.	DNR State Timber Sale Revenue as a Proportion of Total County Revenue, 2001	4-121
Table 4.11-6.	State and All Ownerships Timber Harvest by County, 1997 to 2001 (in million board feet)	4-123
Table 4.11-7.	Projected Annual Average HArvest by Trust Beneficiary and by Alternative, 2004 to 2013 (in million board feet)	
Table 4.11-8.	Projected Annual Average HArvest by County, by Alternative, 2004 to 2013 (in million board feet)	4-126
Table 4.11-9.	Projected Annual Average Logging Truck Traffic by County, by Alternative, 2004 to 2013 (number of trips 1/)	4-127



Table 4.12-1.	Ranking of Alternatives According to their Effect on Cultural Resources (A Rank of 1 Equals Lowest Potential for Impacts)	
Table 4.13-1.	DNR Westside Recreation Trails, by Region (in Miles)	. 4-137
Table 4.15-1.	Definitions of Forest Structure Classes Used in this Cumulative Effects Analysis Based on Interagency Vegetation Mapping Project Data	4-151
Table 4.15-2.	Number of Watersheds with Small/Open Condition Forest by Harbitat Conservation Planning Unit	
Table 4.15-3.	Percent of Small/Open Forest and Ownership in Watersheds with the Highest Future Potential to Become Dominated by Small/Open Forest	. 4-153
Table 4.15-4.	Watersheds Where Management of DNR Lands May Play a Major Role in the Maintenance of Small/Open Forest	
Table 4.15-5.	Number of Watersheds Supporting Various Proportions of Forests with Medium/Large Trees Among Planning Units	. 4-154
Table 4.15-6.	Summary of Watersheds Supporting the Highest Proportion of Forests with Medium/Large Trees, and the Proportion of the Watershed in Each Ownership Class	. 4-155
Table 4.15-7.	Number of Watersheds Supporting Various Proportions of Forest with Very Large Trees Among Planning Units	
Table 4.15-8.	Summary of Watersheds in Which at Least 10 Percent of DNR Lands are Designated Spotted Owl Nesting Roosting, and Foraging Management Areas, and Where Less Hthan 50 Percent of Existing Forest with Very Large Trees Falls on Federal Lands	. 4-157
Table 4.15-9.	Summary of Watersheds in which at Least 10 Percent of Forested Lands Supports Forest with Very Large Trees, and Where at Least 20 Percent of Existing Forest with Very Large Trees Occurs on DNR Lands	
Table 4.15-10.	Areas with an Elevated Potential for Development and Where Wetlands Have Been Identified	
Table 4.15-11.	Average Percent Area Classified as High for Potential Slope Instability by Planning Unit and Ownership	. 4-165
Table 4.15-12.	Average Percent Acreage Classified as High for Moist Soil Compaction Potential	4-166